P6 Rec'd PCT/PTO 15 FEB 2006 PTO-1390 (Rev. 07-200

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER 082368-004400US

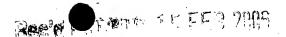
U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

10/536,935 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/JP03/14909 November 21, 2003 November 22, 2002 TITLE OF INVENTION METHOD OF SCREENING FOR COMPOUNDS THAT INHIBIT THE ENZYMATIC ACTIVITY OF GWT1 GENE PRODUCT APPLICANT(S) FOR DO/EO/US Kappei TSUKAHARA; Mamiko TSUCHIYA; Yoshifumi JIGAMI; Kenichi NAKAYAMA; Mariko UMEMURA; and Michiyo OKAMOTO Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. I is attached hereto (required only if not communicated by the International Bureau). b. has been communicated by the International Bureau. c. is not required, as the application was filed in the United States Receiving Office (RO/US). 6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. is attached hereto. b. has been previously submitted under 35 U.S.C. 154(d)(4). 7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. c. have not been made; however, the time limit for making such amendments has NOT expired. d. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)) - in two parts: 1) executed by Inventors Tsukahara and Tsuchiya; and 2) executed by Inventors Jigami, Nakayama, Umemura and Okamoto. 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825. 18. A second copy of the published International Application under 35 U.S.C 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

v	U.S. APPLICATION	ON NO. (if known, see 3 10/536,935	7 CFR 1.5)	INTERNATIONAL PCT/JE				OCKET NUMBER
	20. Other it				PCT/JP03/14909 abel No.: EV 566969831 US : Submission of		<u></u>	
	copy of the	e Sequence Listing; E nal Search Report; ar	on Patentability; copy of the					
		owing fees have been					CALCULATIONS	PTO USE ONLY
	21. Basic n	ational fee (37 CFR 1.	.492(a))		\$	300	\$:
	22. Examin	nation fee (37 CFR 1.49						
	by IPEA/US	indicates all claims sat	tisfy provisi	national preliminary examons of PCT Article 33(1)-(4)\$	0 .	\$	8
• .	23. Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)\$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority						\$	
		TOTAL OF 21, 22 a	\$					
	sequence electronie	e listing in compliance v c medium) (37 CFR 1.4	with 37 CFR 192(j)).	d in paper over 100 sheets 1.821(c) or (e) or compute ts of paper or fraction there	er program	listing in an		
	Total Sheets	Extra Sheets		of each additional 50 or fra (round up to a whole num		RATE		
	- 100 =	/50 =	· ·	h fan avamination fan ar	the eath a	x \$250	\$	
		rcharge of \$130.00 for furnishing any of the search fee, examination fee, or er the date of commencement of the national stage (37 CFR 1.492(h)).			the bath or declaration		\$ 130.00	
	CLAIMS	NUMBER F	-	NUMBER EXTRA		RATE		1
	Total claims		- 20 =		х	\$ 50	\$	
	Independent clair		- 3 =	,	×	\$200	\$	
	MULTIPLE DEPEN	NDENT CLAIM(S) (if ap	oplicable)			\$360	\$	
•				TOTAL OF AB	OVE CALC	CULATIONS =	\$	
	Applicant clai	ms small entity status.	See 37 CF	R 1.27. Fees above are	reduced by	/ ½.	\$	
						SUBTOTAL =	\$ 130.00	
		130.00 for furnishing to the (37 CFR 1.492(i)).	the English	translation later than 30 n	nonths fron	n the earliest +	\$	· · · -
				. то	OTAL NAT	IONAL FEE =	\$	
		he enclosed assignme cover sheet (37 CFR 3		1.21(h)). The assignmen \$40.00 per property	t must be a	accompanied +	\$	
				тот	AL FEES	ENCLOSED =	\$ 130.00	
/22/20	06 LLANDGRA 0000	0018 201430 1053	6935				Amount to be refunded:	\$
l FC:16	17 130.00	DA					Amount to be charged:	\$ 130.00

A check in the amount of \$	to cover the above fees is enclosed.
Please charge my Deposit Account No. <u>20-1430</u> A duplicate copy of this sheet is enclosed.	in the amount of \$ 130.00 to cover the above fees.
The Commissioner is hereby authorized to charge Deposit Account No. <u>20-1430</u> . A duplicate copy	any additional fees which may be required, or credit any overpayment to of this sheet is enclosed.
	i: Information on this form may become public. Credit card information edit card information and authorization on PTO-2038.
Where an appropriate time limit under 37 CFR 1.4 and granted to restore the International Applicati	95 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must on to pending status.
LL CORRESPONDENCE TO: astian END AND TOWNSEND AND CREW LLP barcadero Center, Eighth Floor ncisco, CA 94111-3834	Kevin Bastian NAME 34,774 REGISTRATION NUMBER
	Please charge my Deposit Account No. 20-1430 A duplicate copy of this sheet is enclosed. The Commissioner is hereby authorized to charge Deposit Account No. 20-1430 . A duplicate copy Fees are to be charged to a credit card. WARNING should not be included on this form. Provide cre Where an appropriate time limit under 37 CFR 1.4 and granted to restore the International Application. LL CORRESPONDENCE TO: astian END AND TOWNSEND AND CREW LLP barcadero Center, Eighth Floor

60704414 v1



STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	/0/536,935	
Source:	PCT/10	
Date Processed by STIC:	6/9/05	
	7-7	

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK-SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 4.2.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
 U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

BEST AVAILABLE COPY



RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/536,935

DATE: 06/09/2005

TIME: 09:38:32

Input Set : A:\082368-004400US.txt

Output Set: N:\CRF4\06092005\J536935.raw

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4 <110> APPLICANT: Tsukahara, Kappei
      5
              Tsuchiya, Mamiko
      6
              Jigami, Yoshifumi
      7
              Nakayama, Kenichi
              Umemura, Mariko
              Okamoto, Michiyo
     11 <120> TITLE OF INVENTION: METHOD OF SCREENING FOR COMPOUNDS THAT
     12
              INHIBIT THE ENZYMATIC ACTIVITY OF GWT1 GENE PRODUCT
     15 <130> FILE REFERENCE: 082368-004400US
C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/536,935
C--> 17 <141> CURRENT FILING DATE: 2005-05-20
     17 <150> PRIOR APPLICATION NUMBER: PCT/JP03/14909
     18 <151> PRIOR FILING DATE: 2003-11-21
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20 <150> PRIOR APPLICATION NUMBER: JP 2002-339418

21 <151> PRIOR FILING DATE: 2002-11-22 E--> 23 <160> NUMBER OF SEQ ID NOS: 1 | 8 4 12 p. 2 25 <170> SOFTWARE: FastSEQ for Windows Version 4.0

Does Not Comply Corrected Diskette Neede

ERRORED SEQUENCES

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1859 <213> ORGANISM: Artificial sequence

1861 <220> FEATURE:

1862 <223> OTHER INFORMATION: Description of Artificial Sequence:an artificially

synthesized primer sequence

1865 <400> SEQUENCE: 16

E--> 1866 gcatcgattt atagcttaat gaatattett tttet atac

last sequere in submitted file <210> 18 <211> .60

<212> DNA

<213> Saccharomyces cerevisiae

<400> 18

ttatagctta atgaatattc tttttctata caagaaaacc gaattcgagc tcgtttaaac

1380

tgg ctt gct caa cac gga att cgt ttt cgc ctt tag Trp Leu Ala Gln His Gly Ile Arg Phe Arg Leu

455

(460) delete

do not number stop coders-they do not code for amend acids

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/536,935

DATE: 06/09/2005 TIME: 09:38:33

Input Set : A:\082368-004400US.txt

Output Set: N:\CRF4\06092005\J536935.raw

L:17 M:270 C: Current Application Number differs, Replaced Current Application No L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:867 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7 L:1395 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#: 12, CDS LOCATION: 44..2001 L:1399 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#: 12, CDS LOCATION: 44.,2001 L:1459 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#: 12, CDS LOCATION: 44..2001 L:1463 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#: 12, CDS LOCATION: 44..2001 L:1519 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#: 12, CDS LOCATION: 44..2001 L:1523 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#: 12, CDS LOCATION: 44..2001 L:1866 M:254 E: No. of Bases conflict, LENGTH:Input:34 Counted:39 SEQ:16

L:23 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (1) Counted (18)

L:1866 M:252 E: No. of Seq. differs, <211> LENGTH:Input:34 Found:39 SEQ:16



United States Patent and Trademark Office

082368-004400 US

NITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. BOX 1459 Alexandria, Virginia 22313-1450 www.uspto.gov

U.S. APPLICATION NUMBER NO.

FIRST NAMED APPLICANT

ATTY. DOCKET NO.

10/536,935

Kappei Tsukahara

082368-004400US

INTERNATIONAL APPLICATION NO. PCT/JP03/14909

I.A. FILING DATE

PRIORITY DATE

11/21/2003

11/22/2002

20350 TOWNSEND AND TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER **EIGHTH FLOOR** SAN FRANCISCO, CA 94111-3834

Date Mailed: 12/

CONFIRMATION NO. 6397 371 FORMALITIES LETTER

OC000000017621684*

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 05/20/2005
- English Translation of the IA filed on 05/20/2005
- Copy of the International Search Report filed on 05/20/2005
- Copy of IPE Report filed on 05/20/2005
- Preliminary Amendments filed on 05/20/2005
- Biochemical Sequence Diskette filed on 05/20/2005
- Biochemical Sequence Listing filed on 05/20/2005
- U.S. Basic National Fees filed on 05/20/2005
- Priority Documents filed on 05/20/2005
- Specification filed on 05/20/2005
- Claims filed on 05/20/2005
- Abstracts filed on 05/20/2005
- Drawings filed on 05/20/2005
- Paper nucleotide sequence listings filed on 05/20/2005

The applicant needs to satisfy supplemental fees problems indicated below.

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the

Inc



missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$380 for a Large Entity:

- \$130 Surcharge.
 - A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of
 the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as
 indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a
 substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content
 of the sequence listing information recorded in computer readable form is identical to the written (on paper
 or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR
 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).
 - The specification and drawings contain more than 100 pages. Applicant owes \$250 for 20 pages in excess of 100 pages for a non-small entity.

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice **MUST** be returned with the response.

DARRELL C COTTMAN

Telephone: (703) 308-9140 EXT 203

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY, DOCKET NO.	
10/536.935	PCT/ID02/14000	082368-004400US	